

What is claimed is:

1. An automatic data storage system enabling changing of a media storage component within a writing-reading device during a data storage process, said system comprising a programmable automatic handler, said handler including at least one picking arm, wherein the media storage component is replaced according to a predefined scheduling scheme.
2. The data storage system of claim 1 further comprising a printing device for writing on each media storage component throughout the storage process.
3. The data storage system of claim 1 further comprising a software module for formatting the media storage components and generating a catalog of the stored information.
4. The data storage system of claim 4 wherein the catalog includes at least one of the following items: the list of files stored in any individual storage media component, date of the file generation, size of the stored file, list of all printed information on the discs, contents of all the discs previously recorded or estimated location of the storage sessions to follow until the complete session finishes.
5. The data storage system of claim 3 wherein the printing device prints on each individual recorded disc by an integrated thermal transfer printer.
6. The data storage system of claim 3 wherein printed information on each disc includes at least one of the following: date, serial number and customer defined information, enabling identification of the recorded disc as an independent element in the data storage process.

7. The data storage system of claim 1 further including at least one in tray and at least one out tray, wherein the picking arm transfers the media storage component from the in tray to the writing-reading device and from there to the out tray.

5 8. The data storage system of claim 1 wherein the handler device includes at least one vacuum suction cup for gripping the media storage component.

9. The data storage system of claim 1 wherein the handler device includes at least one mechanical gripper.

10 10. The data storage system of claim 1 further comprising a visual recognizer device wherein the handler is programmed to search for a specific media storage component from the collection of media storage components, according to identified data printed on said media storage component, said search is processed by transferring the media storage component one by one from one stock holder to another and reading the label of each media storage component until the
15 desired media storage component is found.

11. The data storage system of claim 1 wherein the picking arm moves along a rack.

12. The data storage system of claim 1 wherein the picking arm moves around a single axis.